

L Number	Hits	Search Text	DB	Time stamp
1	914187	crystal\$	USPAT; EPO; JPO; DERWENT	2002/08/02 12:34
2	253183	benzene	USPAT; EPO; JPO; DERWENT	2002/08/02 12:34
3	382	phenyllactic	USPAT; EPO; JPO; DERWENT	2002/08/02 12:34
4	61149	nitrile	USPAT; EPO; JPO; DERWENT	2002/08/02 12:34
5	207830	enzym\$	USPAT; EPO; JPO; DERWENT	2002/08/02 12:35
6	958	hydroxyacid	USPAT; EPO; JPO; DERWENT	2002/08/02 12:48
7	382	(562/470).CCLS.	USPAT; EPO; JPO; DERWENT	2002/08/02 12:35
8	0	("111 and 113").PN.	USPAT; EPO; JPO; DERWENT	2002/08/02 12:35
9	212	chloromandelic adj acid	USPAT; EPO; JPO; DERWENT	2002/08/02 12:35
10	113	crystal\$ and (chloromandelic adj acid)	USPAT; EPO; JPO; DERWENT	2002/08/02 12:35
11	233001	toluene	USPAT; EPO; JPO; DERWENT	2002/08/02 12:36
12	96	toluene and (crystal\$ and (chloromandelic adj acid))	USPAT; EPO; JPO; DERWENT	2002/08/02 12:37
13	5255	optically adj pure	USPAT; EPO; JPO; DERWENT	2002/08/02 12:37
14	4930	mandelic adj acid	USPAT; EPO; JPO; DERWENT	2002/08/02 12:50
15	54011	tumor	USPAT; EPO; JPO; DERWENT	2002/08/02 12:37
16	78	oxynitrilase	USPAT; EPO; JPO; DERWENT	2002/08/02 12:37
17	1486219	optical purity	USPAT; EPO; JPO; DERWENT	2002/08/02 12:37
18	24458	enrichment	USPAT; EPO; JPO; DERWENT	2002/08/02 12:37
19	10	chloromandelonitrile	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
20	4	crystal\$ and chloromandelonitrile	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
21	2	benzene and (crystal\$ and chloromandelonitrile)	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
22	2	("5714357").PN.	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
23	41	phenyllactic and nitrile	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41

24	30	(phenyllactic and nitrile) and enzym\$	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
25	10	(toluene and (crystal\$ and (chloromandelic adj acid))) and (optically adj pure)	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
26	7	2-chloromandelic adj acid	USPAT; EPO; JPO; DERWENT	2002/08/02 12:49
27	573	(mandelic adj acid) and tumor	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
28	131	(mandelic adj acid) and hydroxyacid	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
29	2	(chloromandelic adj acid) and oxynitrilase	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
30	1	63219388.pn.	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
31	5	5223416.URPN.	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
32	3	(chloromandelic adj acid) and enrichment	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
33	3	4859784.pn.	USPAT; EPO; JPO; DERWENT	2002/08/02 12:41
34	1		USPAT	2002/08/02 12:47
35	1		USPAT	2002/08/02 12:47
36	11479	hydroxycarboxylic	USPAT; EPO; JPO; DERWENT	2002/08/02 12:48
37	2799	methylisobutyl	USPAT; EPO; JPO; DERWENT	2002/08/02 12:50
38	0	(chloromandelic adj acid) and methylisobutyl	USPAT; EPO; JPO; DERWENT	2002/08/02 12:49
39	2485	methylisobutyl adj ketone	USPAT; EPO; JPO; DERWENT	2002/08/02 12:50
40	16	(methylisobutyl adj ketone) and (mandelic adj acid)	USPAT; EPO; JPO; DERWENT	2002/08/02 12:50

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	91418 7	crystal\$	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:34		Truncation overflow.
2	BRS	L2	25318 3	benzene	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:34		
3	BRS	L3	382	phenyllactic	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:34		
4	BRS	L4	61149	nitrile	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:34		
5	BRS	L5	20783 0	enzym\$	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:35		Truncation overflow.
6	BRS	L6	958	hydroxyacid	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:48		
7	IS&R	L7	382	(562/470).CCLS.	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:35		
8	IS&R	L8	0	("l11 and l13").PN.	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:35		
9	BRS	L9	212	chloromandelic adj acid	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:35		
10	BRS	L10	113	crystal\$ and (chloromandelic adj acid)	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:35		Truncation overflow.

	Err ors
1	1
2	0
3	0
4	0
5	1
6	0
7	0
8	0
9	0
10	1

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
11	BRS	L11	23300 1	toluene	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:36		
12	BRS	L12	96	toluene and (crystal\$ and (chloromandelic adj acid))	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:37		Truncation overflow.
13	BRS	L13	5255	optically adj pure	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:37		
14	BRS	L14	4930	mandelic adj acid	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:50		
15	BRS	L15	54011	tumor	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:37		
16	BRS	L16	78	oxynitrilase	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:37		
17	BRS	L17	14862 19	optical purity	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:37		
18	BRS	L18	24458	enrichment	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:37		
19	BRS	L19	10	chloromandelonitrile	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:41		
20	BRS	L20	4	crystal\$ and chloromandelonitrile	USPAT ; EPO; JPO; DERWE NT	2002/08/02 12:41		Truncation overflow.

	Errors
11	0
12	1
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	1

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
21	BRS	L21	2	benzene and (crystal\$ and chloromandelonitrile)	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		Truncation overflow.
22	IS&R	L22	2	("5714357").PN.	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
23	BRS	L23	41	phenyllactic and nitrile	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
24	BRS	L24	30	(phenyllactic and nitrile) and enzym\$	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		Truncation overflow.
25	BRS	L25	10	(toluene and (crystal\$ and (chloromandelic adj acid))) and (optically adj pure)	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		Truncation overflow.
26	BRS	L26	7	2-chloromandelic adj acid	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:49		
27	BRS	L27	573	(mandelic adj acid) and tumor	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
28	BRS	L28	131	(mandelic adj acid) and hydroxyacid	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
29	BRS	L29	2	(chloromandelic adj acid) and oxynitrilase	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
30	BRS	L30	1	63219388.pn.	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		

	Err ors
21	1
22	0
23	0
24	1
25	1
26	0
27	0
28	0
29	0
30	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
31	BRS	L31	5	5223416.URPN.	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
32	BRS	L32	3	(chloromandelic adj acid) and enrichment	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
33	BRS	L33	3	4859784.pn.	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:41		
34	BRS	L34	1	"1984415".PN.	USPAT	2002/08/02 12:47		
35	BRS	L35	1	"4594196".PN.	USPAT	2002/08/02 12:47		
36	BRS	L36	11479	hydroxycarboxylic	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:48		
37	BRS	L37	2799	methylisobutyl	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:50		
38	BRS	L38	0	19 and 137	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:49		
39	BRS	L39	2485	methylisobutyl adj ketone	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:50		
40	BRS	L40	16	l39 and l14	USPAT; EPO; JPO; DERWE NT	2002/08/02 12:50		

	Er rors
31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	0
39	0
40	0

NEWS 25 Jul 29 Enhanced polymer searching in REGISTRY  
NEWS 26 Jul 30 NETFIRST to be removed from STN

NEWS EXPRESS	February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information.
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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Enter NEWS followed by the item number or name to see news on that specific topic.

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=> chloromandelonitrile

L1            14 CHLOROMANDELONITRILE  
              1 CHLOROMANDELONITRILES  
              15 CHLOROMANDELONITRILE  
              (CHLOROMANDELONITRILE OR CHLOROMANDELONITRILES)

=> methylisobutyl ketone  
385 METHYLISOBUTYL  
119786 KETONE  
97558 KETONES  
175423 KETONE  
(KETONE OR KETONES)  
L2 278 METHYLISOBUTYL KETONE  
(METHYLISOBUTYL (W) KETONE)

=> l1 and l2  
L3 0 L1 AND L2

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STRUCTURE FILE UPDATES: 31 JUL 2002 HIGHEST RN 441711-84-8  
DICTIONARY FILE UPDATES: 31 JUL 2002 HIGHEST RN 441711-84-8

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> e chloromandelonitrile/cn
E1      1      CHLOROMALOSIDE D/CN
E2      1      CHLOROMALOSIDE E/CN
E3      0 --> CHLOROMANDELONITRILE/CN
E4      1      CHLOROMARMIN/CN
E5      1      CHLOROMELANITE/CN
E6      1      CHLOROMELANITE
((AL0.3-0.4FE0.3-0.4MG0.3-0.4)SI2(NA0.6-0.7CA
0.3-0.4)O6)/CN
E7      1      CHLOROMENITE/CN
E8      1      CHLOROMERCURI-6-BENZAMIDOPURINE/CN
E9      1      CHLOROMERCURI-N-BENZOYLADENINE/CN
E10     1      CHLOROMERCURIC DIPHENYLTHIOCARBAZONATE/CN
E11     1      CHLOROMERCURIO-5-URACIL/CN
E12     1      CHLOROMERCURIOACETIC ACID/CN
```

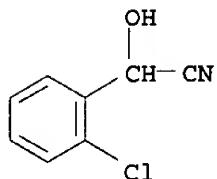
=> e 2-chloromandelonitrile/cn  
E1 1 2-CHLOROMANDELALDEHYDE/CN  
E2 1 2-CHLOROMANDELIC ACID/CN

E3 1 --> 2-CHLOROMANDELONITRILE/CN  
 E4 1 2-CHLOROMELATONIN/CN  
 E5 1 2-CHLOROMERCURI-1,4,6-PREGNatriene-3,20-DIONE/CN  
 E6 1  
 2-CHLOROMERCURI-17.ALPHA.-METHYL-1,4,6-ANDROSTATRIENE-17.BET  
 A.-OL-3-ONE/CN  
 E7 1 2-CHLOROMERCURI-2'-IODOAZOBENZENE/CN  
 E8 1 2-CHLOROMERCURI-2'-NITROAZOBENZENE/CN  
 E9 1 2-CHLOROMERCURI-3,3,3-TRIFLUORO-1-PROPANOL/CN  
 E10 1 2-CHLOROMERCURI-3-ACETOXYCYCLOHEXANONE/CN  
 E11 1 2-CHLOROMERCURI-3-HYDROXYCYCLOHEXANONE/CN  
 E12 1 2-CHLOROMERCURI-3-METHOXCYCLOHEXANONE/CN

=> e3  
 L4 1 2-CHLOROMANDELONITRILE/CN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS  
 RN 13312-84-0 REGISTRY  
 CN Benzeneacetonitrile, 2-chloro-.alpha.-hydroxy- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Mandelonitrile, o-chloro- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN (.-.)-2-Chloromandelonitrile  
 CN (o-Chlorophenyl)glycolonitrile  
 CN 2-Chlorobenzaldehyde cyanohydrin  
 CN 2-Chloromandelonitrile  
 CN o-Chlorobenzaldehyde cyanohydrin  
 CN o-Chloromandelonitrile  
 FS 3D CONCORD  
 DR 137766-65-5  
 MF C8 H6 Cl N O  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, SPECINFO,  
 TOXCENTER,  
 USPATFULL  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

20 REFERENCES IN FILE CA (1967 TO DATE)  
 20 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		5.96	12.24

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=> 14  
L5 22 L4

```
=> file caplusd his  
'CAPLUSD' IS NOT A VALID FILE NAME  
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files  
that are available. If you have requested multiple files, you can  
specify a corrected file name or you can enter "IGNORE" to continue  
accessing the remaining file names entered.  
ENTER A FILE NAME OR (IGNORE):end
```

=> file caplus  
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.19	13.43

FILE 'CAPLUS' ENTERED AT 12:27:06 ON 02 AUG 2002  
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=> d his

(FILE 'HOME' ENTERED AT 12:23:03 ON 02 AUG 2002)

FILE 'CAPLUS' ENTERED AT 12:23:10 ON 02 AUG 2002

L1 15 CHLOROMANDELONITRILE  
L2 278 METHYLISOBUTYL KETONE  
L3 0 L1 AND L2

FILE 'REGISTRY' ENTERED AT 12:24:40 ON 02 AUG 2002

E CHLOROMANDELONITRILE/CN  
E 2-CHLOROMANDELONITRILE/CN

L4 1 E3

FILE 'CAPLUS' ENTERED AT 12:25:33 ON 02 AUG 2002

L5 22 L4

FILE 'CAPLUS' ENTERED AT 12:27:06 ON 02 AUG 2002

=> l2 and 15

L6 0 L2 AND L5

=> ?ether

L7 1038830 ?ETHER

=> l7a nd 15

MISSING OPERATOR ND L5

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> l7 and 15

L8 2 L7 AND L5

=> d l8 1-2 ti

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

TI Preparation of optically active o-chloromandelic acid

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

TI Substituted benzyloxychloroethoxyethane herbicide antidotes

=> d l8 1 ti fbib abs

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

TI Preparation of optically active o-chloromandelic acid

AN 2002:286689 CAPLUS

DN 136:309759

TI Preparation of optically active o-chloromandelic acid

IN Hyoda, Toshiharu; Nawata, Hidetoshi

PA Japan Hydrazine Company Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002114737	A2	20020416	JP 2000-311103	20001011
AB	(R)-(-)-o-chloromandelic acid was prep'd. by mixing racemic o-chloromandelic acid with (S)-(+)-alanine, isolating crystd. (R)-(-)-o-chloromandelic acid-(S)-(+)-alanine inclusion complex, and decomplexation of the complex with acids or by solvent extn. (.+-.)-O-chloromandelic acid [prep'd. from o-chlorobenzaldehyde] was reacted with (S)-(+)-alanine in H <sub>2</sub> O at 70.degree. to give 44.8% (R)-(-)-o-chloromandelic acid-(S)-(+)-alanine inclusion complex, which was treated with HCl in H <sub>2</sub> O-Me tert-Bu ether at room temp. to give 30.8% (R)-(-)-o-chloromandelic acid (based on racemic o-chloromandelic acid).				

=> logoff holdf

'HOLDF' IS NOT VALID HERE

For an explanation, enter "HELP LOGOFF".

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.44	21.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

SESSION WILL BE HELD FOR 60 MINUTES

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